

DR XX
 XX N-PSDB; AAA20510.
 PT PolyPeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents
 XX Claim 28, Page 34; 50pp; English.
 CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. Reverse
 CC peptide, Rev4 or indolicidin (see AAY92794) was found to have increased
 CC stability against plant protease degradation. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.
 CC Indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.
 XX Sequence 13 AA;

Query Match 100.0%; Score 99; DB 21; Length 13;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RRPWPKWPKWPLI 13
 DB 1 rrwpwwpkwpli 13

RESULT 2
 ID AAY92806 standard; peptide; 13 AA.
 AC AAY92806;
 DT 29-AUG-2000 (first entry)
 DE Antimicrobial peptide, indolicidin reverse peptide, Rev4.
 KW Marainic; antimicrobial; transgenic plant; protease degradation; Rev4;
 KW indolicidin; protein production; reverse peptide.
 OS Synthetic.
 XX
 PN WO200026344-A1.
 PD 11-MAY-2000.
 XX
 PF 29-OCT-1999; 99WO-US25561.
 PR 30-OCT-1998; 98US-0106373.
 PR 02-NOV-1998; 98US-0106537.
 XX
 PA (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
 PA (KENT) UNIV KENTUCKY RES FOUND.
 PI Everett NP, Li Q, Lawrence C, Davies MH;
 DR WPI; 2000-365597/31.
 XX
 PT PolyPeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents
 XX
 PS Claim 3; Page 34; 50pp; English.
 XX
 CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. A non C-terminal amide
 CC analogue of Rev4 (reverse indolicidin) with an additional N-terminal Ser
 CC was found to have increased stability against plant protease degradation
 CC as well as potent antifungal activity. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.

Query Match 100.0%; Score 99; DB 21; Length 13;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 RRPWPKWPKWPLI 13
 DB 1 rrwpwwpkwpli 13

RESULT 3
 ID AAY92797 standard; peptide; 14 AA.
 AC AAY92797;
 DT 29-AUG-2000 (first entry)
 DE Synthetic antimicrobial peptide, Ser-Rev4-OH.
 KW Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;
 KW indolicidin; protein production; reverse peptide.
 OS Synthetic.
 XX
 PN WO200026344-A1.
 PD 11-MAY-2000.
 XX
 PF 29-OCT-1999; 99WO-US25561.
 PR 30-OCT-1998; 98US-0106373.
 PR 02-NOV-1998; 98US-0106537.
 XX
 PA (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
 PA (KENT) UNIV KENTUCKY RES FOUND.
 PI Everett NP, Li Q, Lawrence C, Davies MH;
 DR WPI; 2000-365597/31.

XX
 PT PolyPeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents
 XX
 PS Claim 3; Page 34; 50pp; English.

XX
 CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. A non C-terminal amide
 CC analogue of Rev4 (reverse indolicidin) with an additional N-terminal Ser
 CC was found to have increased stability against plant protease degradation
 CC as well as potent antifungal activity. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.

Sequence		14 AA;	antimicrobial peptides. Compositions containing indolicidin and Rev4 are also useful for production of agronomically important proteins in plants.					
SO			Query Match	100.0%	Score 99;	DB 21;	Length 14;	
			Best Local Similarity	100.0%	Pred. No. 4e-07;			
			Matches	13;	0;	Mismatches	0;	Indels 0;
								Gaps 0;
			1	RRWPWWPKWFLI 13				
			2	rwppwppkwl 14				
			RESULT 4					
			DE					
			ID	AAB97449	standard;	Protein:	15 AA.	
			XX					
			AC					
			XX					
			DT					
			31-JUL-2001	(first entry)				
			DE					
			Peptide nucleic acid Peptide fragment #17.					
			XX					
			KW	Peptide nucleic acid; PNA; antibiotic; antisense; enterococcus;				
			KW	Staphylococcus aureus; Escherichia coli; infectious disease;				
			KW	disinfectant; cationic peptide; linker.				
			XX					
			OS	Synthetic.				
			XX					
			PA	WO200127261-A2.				
			XX					
			PD	19-APR-2001.				
			XX					
			PF	13-OCT-2000;	2000WO-DK00580.			
			XX					
			PR	13-OCT-1999;	99DK-0001467.			
			PR	13-OCT-1999;	99DK-0001471.			
			PR	15-OCT-1999;	99US-0159679.			
			PR	15-OCT-1999;	99US-0159684.			
			PR	03-DEC-1999;	99DK-0001734.			
			PR	03-DEC-1999;	99DK-0001735.			
			PR	28-MAR-2000;	2000DK-0000322.			
			PR	19-APR-2000;	2000DK-0000670.			
			PR	14-JUN-2000;	2000US-0211435.			
			PR	14-JUN-2000;	2000US-0211758.			
			XX	14-JUN-2000;	2000US-0211878.			
			PA	(PANT-)	PANTHECO AS.			
			XX					
			PI	Nielsen PE, Good L, Hansen HF, Beck F, Malik L, Schou C;				
			PI	Wissenbach M, Giverneman BK;				
			XX					
			DR	WPI;	2001-27370/28.			
			XX					
			PS	Claim 15; Page 11; 81pp; English.				
			PT	New modified peptide nucleic acids and oligonucleotides, useful for treating and preventing bacterial infections and disinfecting non-living objects -				
			XX					
			PS	The present invention provides the sequences of a number of peptide nucleic acids (PNAs) joined by linker sequences. These are capable of crossing bacterial cell walls due to the presence of the linker. The PNA can be used as antimicrobial agents, particularly as antibiotics against <i>E. coli</i> , vancomycin resistant enterococci and <i>Staphylococcus aureus</i> . The present sequence is the peptide fragment of a PNA of the invention.				
			XX					
			Sequence	15 AA;				

AYV92840
 ID AAY92840 standard; Protein; 68 AA.
 XX
 AC AAY92840;
 XX
 DT 29-AUG-2000 (first entry)
 XX
 XX
 DE Rev4-PR-1b fusion.
 XX
 KW Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;
 KW indolicidin; protein production; reverse peptide; ss.
 XX
 OS Synthetic.
 XX
 PN WO200026344-A1.
 XX
 PD 11-MAY-2000.
 XX
 PP 29-OCT-1999; 99WO-US25561.
 XX
 PR 30-OCT-1998; 98US-0106373.
 PR 02-NOV-1998; 98US-0106537.
 XX
 PA (INVE-) INTERLINK BIOTECHNOLOGIES LLC.
 PA (KENT) UNIV KENTUCKY RES FOUND.
 PA
 XX
 PI Everett NP, Li Q, Lawrence C, Davies MH;
 PI
 XX
 DR N-PSDB; AIA28519.
 XX
 PT Polypeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents
 XX
 PS Disclosure; Page 35-36; 50pp; English.
 XX
 CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. Reverse
 CC peptide, Rev4 of indolicidin (see AYV2794) was found to have increased
 CC stability against plant protease degradation. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.
 CC
 XX
 SQ Sequence 68 AA;

Query Match
 Best Local Similarity 100.0%; Score 99; DB 21; Length 68;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRPWPKWPWPKWPLI 13
 QY 1 RRPWPKWPWPKWPLI 13
 DB 56 rrwppwpkwpkpli 68

RESULT 7
 AAW13809
 ID AAW13809 standard; peptide; 14 AA.
 XX
 AC AAW13809;
 XX
 DT 10-DEC-1997 (first entry)
 DE Antimicrobial cationic peptide CP-13.
 XX

Query Match
 Best Local Similarity 78.8%; Score 78; DB 18; Length 14;
 Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 RRPWPKWPWPKW 10
 QY 1 RRPWPKWPWPKW 10
 DB 3 kkwppwpkwpk 12

RESULT 8
 AAW13801
 ID AAW13801 standard; peptide; 15 AA.
 XX
 AC AAW13801;
 XX
 DT 10-DEC-1997 (first entry)
 DE Antimicrobial cationic peptide CP-27.
 XX
 KW Bacterial; viral; antitumour; food; preservative; inhibitor; growth;

KW	bacterium; yeast; endotoxaemia; sepsis; antibiotic; fungal; antiviral; Candida albicans; sterilant; Salmonella; Yersina; Shigella.
XX	disinfectant; cationic peptide; linker.
OS	Synthetic.
XX	
PD	06-MAR-1997.
XX	
PR	23-AUG-1996; 96WO-1B00996.
XX	
PR	23-AUG-1995; 95US-0002687.
XX	
PA	(OYBR-) UNIV BRITISH COLUMBIA.
XX	
PT	Falla TJ, Gough M, Hancock REW;
XX	
DR	WPI: 1997-179179/16.
XX	
CC	Cationic peptide(s) having anti-microbial activity - used for the inhibition of bacterial and viral growth, as an antitumour agent, and as a food preservative
PS	Claim 3; Page 66; 81PP; English.
XX	
CC	The present sequence represents a specifically claimed novel isolated cationic peptide which has antimicrobial activity. The amino acid sequence of antimicrobial cationic peptides (including the present sequence) is selected from: X1X1ProX2X3X2Pro(X2X2Pro)nX213(X5)o; X1X1ProX2X3X(X5)rProX2X3X2X5X2(X5)o; X1X1X3X3X2Pro(X2X2Pro)nX213(X5)m; where m = 1-5; n = 1-2; o = 2-5; r = 0-8; u = 0-1; X1 = Ile, Leu, Val, Phe, Tyr, Trp or Met; X2 = Trp or Phe; X3 = Arg or Lys; X4 = Trp or Lys; and X5 = Phe, Trp, Arg, Lys or Pro. The peptides are preferably amidated or carboxymethylated. The peptides may be used in methods for inhibiting the growth of a bacterium or yeast, or for inhibiting an endotoxaemia or sepsis associated disorder in a subject. The peptides have a broad activity against antibiotic resistant bacteria, combined with activity against the medically important fungus Candida albicans. In addition, the peptides are useful as antitumour agents and/or antiviral agents. The peptides may be used as sterilants or preservatives of materials susceptible to microbial or viral contamination, e.g. in processed foods to inhibit Salmonella, Yersina and Shigella. The peptides are compact and tend to have a unique polypeptide type II extended helix structure that permits them to span the membrane with relatively few amino acids. The peptides possess the ability to work synergistically with antibiotics, and in addition, some of them possess anti-endotoxin activity.
CC	
SQ	Sequence 15 AA;
Query Match	75.8%; Score 75; DB 18; Length 15;
Best Local Similarity	70.0%; Pred. No. 0.00056; Mismatches 0;
Matches	7; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY	1 RRWPPWPWKW 10
Db	3 kkwpwwpwrw 12
RESULT	9
RAB97443	RAB97443 standard; protein; 11 AA.
ID	RAB97443
XX	
AC	AAB97443;
XX	
DT	31-JUL-2001 (first entry)
DE	Peptide nucleic acid peptide fragment #11.
XX	
KW	Peptide nucleic acid; PNA; antibiotic; antisense; enterococcus; Staphylococcus aureus; Escherichia coli; infectious disease;
KW	Indolicidin; microbicide; therapeutic agent; prophylactic;
KW	
XX	
OS	Synthetic.
XX	
PD	19-APR-2001.
XX	
PR	13-OCT-2000; 2000WO-DK00580.
XX	
PT	13-OCT-1999; 99DK-0001467.
XX	
PR	13-OCT-1999; 99DK-0001471.
XX	
PR	15-OCT-1999; 99US-0159679.
XX	
PR	15-OCT-1999; 99US-0159884.
XX	
PR	03-DEC-1999; 99DK-0001734.
XX	
PR	03-DEC-1999; 99DK-0001735.
XX	
PR	20-MAR-2000; 2000DK-0000522.
XX	
PR	19-APR-2000; 2000DK-0000670.
XX	
PR	19-APR-2000; 2000DK-0000671.
XX	
PR	14-JUN-2000; 2000US-0211435.
XX	
PR	14-JUN-2000; 2000US-0211758.
XX	
PA	(PANT-) PANTHECO AS.
XX	
PT	Nielsen PE, Good L, Hansen HF, Beck F, Malik L, Schou C;
PI	Wissenbach M, Glwerman BK;
XX	
DR	WPI: 2001-273770/28.
XX	
PT	New modified peptide nucleic acids and oligonucleotides, useful for treating and preventing bacterial infections and disinfecting non-living objects -
PT	
XX	
PS	Claim 16; Page 68; 81PP; English.
XX	
CC	The present invention provides the sequences of a number of peptide nucleic acids (PNAs) joined by linker sequences. These are capable of crossing bacterial cell walls due to the presence of the linker.
CC	
CC	These can be used as antimicrobial agents, particularly as antibiotics.
CC	
CC	E. coli, vancomycin-resistant enterococci and staphylococcus aureus.
CC	
SQ	Sequence 11 AA;
Query Match	73.7%; Score 73; DB 22; Length 11;
Best Local Similarity	100.0%; Pred. No. 0.00074; Mismatches 0;
Matches	9; Conservative 0; Mismatches 0; Indels 0;
QY	1 RRWPPWPWK 9
Db	2 rrwpwwpwrw 10
RESULT	10
RAB74454	RAB74454 standard; peptide; 13 AA.
ID	AAR74454
XX	
AC	AAR74454;
XX	
DT	25-MAR-1996 (first entry)
XX	
DE	Indolicidin analog #1.
XX	

KW food preservative; disinfectant; medication; Gram positive bacteria;
 KW Gram negative bacteria; protozoa; yeast; fungi; viruses.
 OS Synthetic.
 XX
 FH
 FT Misc-difference 13
 Location/Qualifiers
 /note= "Arg to Trp mutation, amidated"
 PT
 XX
 PN WO9522338-A1.
 XX
 PD 24-AUG-1995.
 XX
 PF 10-FEB-1995; 95WO-US01895.
 XX
 PR 16-FEB-1994; 94US-0197205.
 XX
 PA (REGC) UNIV CALIFORNIA.
 XX
 PT Selsted ME;
 XX
 PT Analogues of the tryptophan-rich peptide indolicidin - exhibiting
 broad spectrum antimicrobial activity and selectivity without
 undesirable side effects
 XX
 PS Claim 6; Page 27; 37pp; English.
 XX
 CC The sequences represented by AAY78454-R78459 are indolicidin analogues.
 CC These analogues exhibit broad spectrum antimicrobial activity and have
 CC antimicrobial selectivity when compared to naturally occurring
 CC indolicidin. The antimicrobial activity of these analogues can be
 altered by incorporation of D-form, chemically altered or synthetic
 CC amino acids. These sequences can be incorporated into a pharmaceutical
 CC composition (e.g. as a liposome or non-liposome lipid complex carrier)
 CC for use in a microbiciil method. These sequences are active against
 CC Gram positive and negative bacteria, protozoa, yeast, fungi and viruses.
 CC They can be used as therapeutic agents, prophylactics, food
 preservatives, disinfectants or medications. These sequences are easily
 CC synthesised in an active and effective broad spectrum antimicrobial form
 CC with decreased undesirable side effects. Compared to naturally occurring
 CC indolicidin, these analogues show increased antimicrobial and decreased
 CC haemolytic activity. Peptide stability, and period of activity within
 CC the cell can be increased or decreased according to the incorporation of
 CC D- or L-form amino acids.
 XX
 SQ Sequence 13 AA;

Query Match 73.7%; Score 73; DB 16; Length 13;
 Best Local Similarity 77.8%; Pred. No. 0 00087;
 Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RWWWWPKW 10
 Db 5 kwpwwpww 13

RESULT 11
 AAY24549
 ID AAY24549 standard; peptide; 13 AA.
 AC AAY24549;
 DT 18-AUG-1999 (first entry)
 XX
 DE Indolicidin analogue #1.
 XX
 KW Indolicidin; bacterial infection; photo-oxidised solubiliser;
 KW antimicrobial; antibiotic; antiarrhythmic; surface disinfectant;
 KW additive; shampoo; soap; insecticide; herbicide; preservative;
 KW food; technical material.

KW Synthetic.
 XX
 PN WO9807745-A2.
 XX
 PD 26-FEB-1998.
 XX
 PF 21-AUG-1997; 97WO-US14779.
 XX
 PR 13-JAN-1997; 97US-0034949.
 PR 21-AUG-1996; 96US-0024754.
 XX
 PA (MICR) MICROLOGIX BIOTECH INC.
 XX
 PI Erie D, Fraser JR, Krieger TJ, Taylor R, West MH;
 XX
 DR WPI; 1998-169090/15.
 XX
 PT New indolicidin analogues with antimicrobial activity and related
 PT nucleic acid - vectors, transformed cells and antibodies, also
 PT conjugates with Polyoxyalkylene glycol and fatty acid to
 PT toxicity, useful therapeutically, as disinfectants etc.
 XX
 PS Claim 11; Page 88; 129pp; English.
 XX
 CC AAY24549 to AAY24615 represent indolicidin analogues of formulae
 CC (I)-(VIII) containing up to 25 amino acids (aa): RXZZXZXB (I), BXZZXZXB
 CC (II), BBBXZXXZB (III), BXZZXXB(BA)nMIBAGB (IV), BXZZXXB(BA)nM
 CC (V), LBBnZnXXZB (VI), LK0nZnXXZR (VII) and BBZXXZXB (VIII).
 CC Where Z = P or V; X = hydrophobic residue, preferably W; B = basic aa,
 CC preferably R or K; AA = any aa; n = 0 or 1; in (III), at least 1 Z = V;
 CC in (VIII) at least 2 X = F or Y. The analogues are used to treat
 CC infections caused by bacteria (Gram positive or negative, or anaerobic);
 CC fungi (yeast or moulds); parasites (protozoa, nematodes, cestodes or
 CC trematodes) or viruses. Typical of very many pathogens that can be
 CC controlled are Leishmania, Trypanosoma, Ascaris lumbricoides, Fasciola
 CC hepatica, Klebsiella pneumoniae, Bordetella pertussis, Staphylococcus
 CC aureus, Listeria, Clostridium, rotavirus and papilloma virus. Compounds
 CC derived from the analogues may be used similarly; the compounds may
 CC also be prepared from antibiotics or antiarrhythmic agents. The analogues
 CC may be used therapeutically or to coat medical devices; also they are
 CC useful as surface disinfectants, as additives to shampoo or soaps, as
 CC insecticides or herbicides, or as preservatives for foods and technical
 CC materials. The analogues are administered by injection, lavage, orally
 CC or topically, generally at 0.1-50 mg/kg. These analogues have a broader
 CC spectrum of activity than indolicidin and modification as compounds
 CC reduces their toxicity.

XX
 SQ Sequence 13 AA;

Query Match 73.7%; Score 73; DB 19; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0 00087;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RWWWWPKW 9
 Qy 2 rrwppwwpk 10
 Db 2 rrwppwwpk 10

RESULT 12
 AAY9175
 ID AAY91775 standard; Peptide; 13 AA.
 AC AAY91775;
 XX
 DT 06-JUN-2000 (first entry)
 XX
 DE Amino acid sequence of cationic peptide MBI 11CNR.
 XX
 KW Cationic peptide; tumour; pharmaceutical composition; cancer; treatment;
 KW leukaemia; polyoxazalkylene-modified; APO; lymphoma; multiple myeloma;
 KW breast; lung; ovary; cervix; uterus; skin; prostate; liver; colon;

KW	multidrug resistance.
XX	
PA	(MICR-) MICROLOGIX BIOTECH INC.
XX	
PI	Fraser JR, Monicol PJ, West MRP;
XX	
PR	WPI; 1998-520800/44.
XX	
PT	New indolicidin peptide analogues - useful for, e.g. enhancing resistance
PT	activity of antibiotic or overcoming tolerance, acquired resistance
PT	or inherent resistance of microorganisms
PT	
XX	claim 1; Page 91; 105pp; English.
PS	
XX	12-JUN-1998; 98US-0096541.
PR	
XX	14-JUN-1999; 99WO-CA00552.
PA	(MICR-) MICROLOGIX BIOTECH INC.
XX	
PI	Friedland HD, Krieger TJ, Taylor R, Erfile D, Fraser JR, West MRP;
XX	
PR	WPI; 2000-223549/19.
XX	
PT	Novel pharmaceutical composition containing optionally activated
PT	polyoxalkylene-modified cationic peptides, useful for treating tumours
PT	
XX	claim 1; Page 91; 105pp; English.
PS	
XX	disclosure; Page 14; 94pp; English.
CC	This sequence represents a cationic peptide amino acid sequence, which
CC	can be used in the pharmaceutical composition containing at least one
CC	invention relates to a pharmaceutical composition containing at least one
CC	activated polyoxalkylene (APO)-modified cationic peptide. The
CC	modification of peptides with APO increases their activity against tumour
CC	cells, including those with a multidrug resistant phenotype. The
CC	pharmaceutical composition can be used to treat tumours of breast, lung, ovary,
CC	lymphoma, leukaemia, multiple myeloma, or tumours of cervix, skin, prostate,
CC	cervix, uterus, liver and colon.
XX	
SQ	Sequence 13 AA:
XX	73.7%; Score 73; DB 21; Length 13;
Query Match	100.0%; Pred. No. 0.00087; Mismatches 0; Indels 0; Gaps 0;
Best Local Similarity	
Matches	9; Conservative 9;
QY	1 RRPWWWWPK 9
DB	2 rrwppwwpwk 10
RESULT 13	
AAW66360	AAW66360 standard; peptide; 15 AA.
ID	AAW66360;
XX	
AC	AAW66360;
XX	
DT	12-JAN-1999 (first entry)
XX	
XX	Indolicidin analogue MBI 11A9.
DE	Indolicidin analogue; resistance; cationic peptide; antibiotic;
XX	
KW	Indolicidin analogue; tolerance; antibacterial; microorganism;
KW	bacterial infection; parasite; virus.
KW	
KW	Bos taurus.
OS	Synthetic.
XX	
PR	W09840401-A2.
XX	
PD	17-SEP-1998.
XX	
PF	10-MAR-1998; 98WO-CA00190.
XX	
PN	W09955506-A2.
XX	
PR	25-FEB-1998; 98US-0030619.
PR	10-MAR-1997; 97US-0040649.
PR	20-AUG-1997; 97US-0015314.
PR	26-SEP-1997; 97US-0060099.
XX	
XX	Sequence 14 AA:
XX	73.7%; Score 73; DB 21; Length 13;
Query Match	100.0%; Pred. No. 0.00087; Mismatches 0; Indels 0; Gaps 0;
Best Local Similarity	
Matches	9; Conservative 9;
QY	1 RRPWWWWPK 9
DB	2 rrwppwwpwk 10
RESULT 14	
XX	AA91784
ID	AA91784 standard; Peptide; 15 AA.
XX	
AC	AA91784;
XX	
DT	06-JUN-2000 (first entry)
XX	
DE	Amino acid sequence of cationic peptide MBI 11A9CN.
XX	
KW	Cationic peptide; tumour; pharmaceutical composition; cancer; treatment;
KW	leukaemia; polyoxalkylene-modified; APO; lymphoma; multiple myeloma;
KW	breast; lung; ovary; cervix; uterus; skin; prostate; colon;
KW	multidrug resistance.
XX	
OS	Synthetic.
XX	
PN	W0996556-A2.
XX	
PD	23-DEC-1999.
XX	
PF	14-JUN-1999; 99WO-CA00552.
XX	
PR	12-JUN-1998; 98US-0096541.
XX	
XX	(MICR-) MICROLOGIX BIOTECH INC.
PA	Friedland HD, Krieger TJ, Taylor R, Erfile D, Fraser JR, West MRP;
PI	
XX	WPI; 2000-223549/19.
DR	
PT	Novel pharmaceutical composition containing optionally activated
PT	polyoxalkylene-modified cationic peptides, useful for treating tumours
PT	
XX	claim 1; Page 14; 94pp; English.

XX
 CC This sequence represents a cationic peptide amino acid sequence, which
 CC can be used in the pharmaceutical composition of the invention. The
 CC invention relates to a pharmaceutical composition containing at least one
 CC modification of polyoxyalkylene (APO)-modified cationic peptide. The
 CC cells, including those with a multidrug resistant phenotype. The
 CC pharmaceutical composition can be used to treat tumours, specifically
 CC lymphoma, leukaemia, multiple myeloma, or tumours of breast, lung, ovary,
 CC cervix, uterus, skin, prostate, liver and colon.
 XX
 SQ Sequence 15 AA;

Query Match
 Best Local Similarity 71.2%; Score 70.5; DB 21; Length 15;
 Matches 9; Conservative 0; Pred. No. 0.0021; Indels 0; Gaps 1;
 QY 2 RWPWPKWKP 11
 Db 3 rwpwwpw-wp 11

RESULT 15
 AAY24566
 ID AAY24566 standard; Peptide; 12 AA.
 XX
 AC AAY24566;
 XX
 DT 18-AUG-1999 (first entry)
 XX
 DE Indolicidin analogue #18.
 XX
 KW Indolicidin; bacterial infection; photo-oxidised solubiliser;
 KW antimicrobial; antibiotic; antiarhythmic; surface disinfectant;
 KW additive; shampoo; soap; insecticide; herbicide; preservative;
 XX
 OS Synthetic.
 XX
 PN WO9807745-A2.
 XX
 PD 26-FEB-1998.
 XX
 PR 21-AUG-1997; 97WO-US14779.
 PR 13-JAN-1997; 9705-0034949.
 XX
 PA (MICR-) MICROLOGIX BIOTECH INC.
 XX
 PI Erle D, Fraser JR, Krieger TJ, Taylor R, West MH;
 XX
 DR WPI; 1998-16909/15.
 XX
 PT New indolicidin analogues with antimicrobial activity and related
 PT nucleic acid - vectors, transformed cells and antibodies, also
 PT conjugates with polyoxyalkylene glycol and fatty acid to reduce
 PT toxicity, useful therapeutically, as disinfectants etc.
 XX
 PS Claim 12; Page 89; 129pp; English.

CC
 CC (I)-(VII) containing up to 25 amino acids (aa): RXZXXZB (I), BXZXXZB
 CC (II), BBZXXZBZB (III), BXZXXZBZB (IV), BXZXXZB
 CC (V), LBBZXXZBZB (VI), LKZXXZBZB (VII) and BBZXXZBZB (VIII).
 CC Where Z = P or V; X = hydrophobic residue.
 CC Preferably R or K; AA = any aa; n = 0 or 1; in (II), at least 1 Z = V;
 CC in (VII) at least 2 X = F or Y. The analogues are used to treat
 CC infections caused by bacteria (Gram positive or negative, or anaerobic);
 CC fungi (yeast or moulds); parasites (protozoa, nematodes, cestodes or
 CC trematodes) or viruses. Typical of very many pathogens that can be
 CC controlled are Leishmania, Trypanosoma, Ascaris lumbricoides, Fasciola

CC hepatica, Klebsiella pneumoniae, Bordetella pertussis, Staphylococcus
 CC aureus, Listeria, Clostridium, rotavirus and papilloma virus. Compounds
 CC derived from the analogues may be used similarly; the compounds may
 CC also be prepared from antibiotics or antiarrhythmic agents. The compounds
 CC may be used therapeutically or to coat medical devices. The analogues
 CC may be used as surface disinfectants as additives to shampoos or soaps, as
 CC insecticides or herbicides, or as preservatives for foods and technical
 CC materials. The analogues are administered by injection, lavage, orally
 CC or topically, generally at 0.1-50 mg/kg. These analogues have a broader
 CC spectrum of activity than indolicidin and modification as compounds
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SQ Sequence 12 AA;

Query Match
 Best Local Similarity 70.7%; Score 70; DB 19; Length 12;
 Matches 8; Conservative 1; Pred. No. 0.002; Indels 0; Gaps 0;
 QY 1 RRWWPWPK 9
 Db 3 rrwpwpr 11

Search completed: January 30, 2002, 11:49:55
 Job time: 94 sec

Thu Jan 31 11:07:38 2002

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